

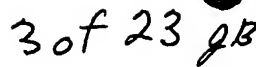
1 of 23

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Page 1 of 1

Form PTO 1449 (Rev. 2-32)				U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. IMMR-0013D (034701-007)		Serial No. 10/780,852	
Information Disclosure Statement by Applicant						Applicant: Louis B. Rosenberg et al.			
(Use several sheets if necessary)						Filed: 02/19/2004		Group: 2628	
U.S. Patent Documents									
Init.		Document No.	Date	Name	Class	Subclass	Filing Date		
/JB/		4,689,449	08/25/1987	Rosen					
/JB/		4,758,692	07/19/1988	Roeser et al.					
/JB/		4,857,881	08/15/1989	Hayes					
/JB/		4,994,669	02/19/1991	Stern					
/JB/		5,223,776	06/29/1993	Radke et al.					
/JB/		5,228,356	07/20/1993	Chuang					
/JB/		5,436,640	07/25/1995	Reeves					
/JB/		5,589,828	12/31/1996	Armstrong					
/JB/		5,589,854	12/31/1996	Tsai					
/JB/		5,629,594	05/13/1997	Jacobus et al.					
/JB/		5,724,068	03/03/1998	Sanchez et al.					
/JB/		5,731,804	3/24/1998	Rosenberg					
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/JB/		5,742,278	04/21/1998	Chen et al.					
/JB/		5,754,023	05/19/1998	Roston et al.					
/JB/		5,805,140	09/08/1998	Rosenberg et al.					
/JB/		6,201,533	3/13/2001	Rosenberg et al.					
/JB/		6,697,048	2/24/2004	Rosenberg et al.					
Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)									
/JB/		Millman, Paul A. et al., "Design of a Four Degree-of-Freedom Force-Reflecting Manipulandum with a Specified Force/Torque Workspace," Depart. Of Mechanical Engineering, 1991, pp. 1488-1493.							
/JB/		Ouhyoung, Ming et al., "A Low-Cost Force Feedback Joystick and Its Use in PC Video Games," IEEE Transactions on Consumer Electronics, Vol. 41, No. 3, August 1995, pp. 787-194.							
/JB/		Russo, Massimo Andrea, "The Design and Implementation of a Three Degree of Freedom Force Output Joystick," Dept. of Mechanical Engineering, MIT May 1990, 131 pages.							
/JB/		Schmult, Brian et al., "Application Areas For A Force-Feedback Joystick," DSC-Vol. 49, Advanced in Robotics, Mechatronics, and Haptic Interfaces, ASME 1993, pp. 47-54.							
/JB/		Tadros, Alfred Heikal, "Control System Design for a Three Degree of Freedom Virtual Environment Simulator Using Motor/Brake Pair Actuators," Dept. of Mechanical Engineering, MIT February 1990, pp. 2-88.							
/JB/		Yamakita, M. et al., "Tele Virtual Reality of Dynamic Mechanical Model," Proceedings of the 1992 IEEE/RSJ International Conference on Intelligent Robots and Systems, July 7-10, 1992, pp. 1103-1110.							
Examiner /Jeffery Brier/ Date Considered 09/24/2007									
Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.									





U.S. Department of Commerce  
Patent and Trademark Office

Atty. Docket No.  
IMMR-0013D

Serial No.  
10/780,852

### Information Disclosure Statement by Applicant

**Applicant:**  
**Louis B. Rosenberg et al.**

(Use several sheets if necessary)

Filed:  
February 19, 2004

Group:  
2173

## U.S. Patent Documents

## Foreign Documents

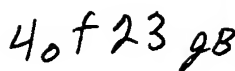
**Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)**

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5 of 23 QB  
(1 of 2)

PTO/SB/08A (10-01)  
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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 3

### Complete if Known

Application Number	10/780,852
Filing Date	February 19, 2004
First Named Inventor	Louis B. Rosenberg
Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	IMMR-050/04US

U.S. PATENT DOCUMENTS					
Examiner	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/JB/		6,422,941	7/23/2002	Thomer et al.	
/JB/		6,160,489	12/12/2000	Perry et al.	
/JB/		6,111,577	8/29/2000	Zilles et al.	
/JB/		5,690,582	11/25/1997	Ulrich et al.	
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/JB/		5,186,695	2/16/1993	Mangseth et al.	
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/JB/		5,165,897	11/24/1992	Johnson	
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/JB/		4,464,117	8/7/1984	Foerst	
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/JB/		4,262,549	4/21/1981	Schwellenbach	
/JB/		4,127,752	11/28/1978	Lowthorp	
/JB/		2,972,140	2/14/1961	Hirsch	

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
		JP	H2-185278		7/19/1990	Taito Corporation	
		JP	H4-8381		1/13/1992	Epoch Co. and Key- Planning Co.	
		JP	H7-24447		1/27/1995	Sega Corporation	
		JP	H5-192449		8/3/1993	Taito Corporation	

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Date  
Considered

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet **2** of **3**

## Complete if Known

Application Number	10/780,852
Filing Date	February 19, 2004
First Named Inventor	Louis B. Rosenberg
Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	IMMR-050/04US

## OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		PATRICK, "Design, Construction, and Testing of a Fingertip Tactile Display for Interaction with Virtual and Remote Environments," <i>Master of Science Thesis</i> , MIT, Aug. 1990, archived Nov. 8, 1990.
		CALDER, "Design of A Force Feedback Touch-Introducing Actuator For Teleoperator Robot Control," <i>Bachelor of Science Thesis</i> , MIT, May 1983, archived June 23, 1983.
		WIKER, "Teletouch Display Development: Phase 1 Report," <i>Technical Report 1230</i> , Naval Ocean Systems Center, San Diego, July 1988.
		BLISS, "Optical-to-Tactile Image Conversion for the Blind," <i>IEEE Transactions on Man-Machine Systems</i> , Vol. MMS-11, No. 1, March 1970.
		JOHNSON, "Shape-Memory Alloy Tactile Feedback Actuator," <i>Armstrong Aerospace Medical Research Laboratory</i> , AAMRL-TR-90-039, August, 1990.
		KONTARINIS et al., "Tactile Display of Vibratory Information in Teleoperation and Virtual Environments," <i>PRESENCE</i> , 4(4):387-402, Harvard Univ., 1995.
		AUKSTAKALNIS et al., "Silicon Mirage: The Art and Science of Virtual Reality," ISBN 0-938151-82-7, pp. 129-180, 1992.
		EBERHARDT et al., "Inducing Dynamic Haptic Perception by The Hand: System Description and Some Results," <i>DSC-Vol. 55-1, Dynamic Systems and Control: Volume 1</i> , ASME 1994.
		GOBEL et al., "Tactile Feedback Applied to Computer Mice," <i>International Journal of Human-Computer Interaction</i> , Vol. 7, No. 1, pp. 1-24, 1995.
		PIMENTEL et al., "Virtual Reality: through the new looking glass," 2 <sup>nd</sup> Edition; McGraw-Hill, ISBN 0-07-050187-X, pp. 41-202, 1994.
		"Cyberman Technical Specification," <i>Logitech Cyberman SWIFT Supplement to Logitech Mouse Technical Reference and Programming Guide</i> , 4/5/1994.
		OUHYOUNG et al., "The Development of A Low-Cost Force Feedback Joystick and Its Use in the Virtual Reality Environment," <i>Proceedings of the Third Pacific Conference on Computer Graphics and Applications, Pacific Graphics '95</i> , Seoul, Korea, 21-24 August 1995.
		KACZMAREK et al., "Tactile Displays," <i>Virtual Environment Technologies</i> , Chap. 9, pp. 349-414.
		LAKE, "Cyberman from Logitech," at <a href="http://www.ibiblio.org/GameBytes/issue21/greviews/cyberman.html">http://www.ibiblio.org/GameBytes/issue21/greviews/cyberman.html</a> , 1994.

Examiner Signature	Date Considered
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7 of 23 PB  
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Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/780,852
		Filing Date	February 19, 2004
		First Named Inventor	Louis B. Rosenberg
		Art Unit	2173
		Examiner Name	Unassigned
Sheet 3 of 3	Attorney Docket Number	IMMR-050/04US	

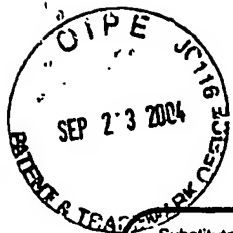
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		<del>*Component Maintenance Manual With Illustrated Parts List, Coaxial Control Shaker Part no. C-25502,* Safe Flight Instrument Corporation, Revised 28 January 2002 (3 pages).</del>
		<del>*Technical Manual Overhaul Instructions With Parts Breakdown, Coaxial Control Shaker Part no. C-25502,* Safe Flight Instrument Corporation, Revised 15 July 1980 (23 pages).</del>
		<del>SCANNELL, "Taking a Joystick Ride," Computer Currents, Boston Edition, Vol. 9, No. 11, November 1994.</del>
/JB/		YAMAKITA et al., "Tele-Virtual Reality of Dynamic Mechanical Model," <i>Proceedings of the 1992 IEEE/RSJ International Conference on Intelligent Robots and Systems</i> , Raleigh, NC, July 7-10, 1992
		<del>NOLL, "Man-Machine Tactile," <i>SID Journal</i>, July/August 1972 Issue.</del>
		<del>ROSENBERG, "Virtual Pictures: Perceptual Overlays Enhance Operator Performance In Telepresence Tasks," Ph.D. Dissertation, Stanford University, June 1994.</del>

Examiner Signature	/Jeffery Brier/	Date Considered	09/24/2007
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8 of 23 JB

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 1 of 8

**Complete If Known**

Application Number	10/780,852
Filing Date	February 19, 2004
First Named Inventor	Louis B. ROSENBERG
Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	IMMR050/04US

U.S. PATENT DOCUMENTS					
Examiner	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/JB/		6,057,828	05-2000	Rosenberg et al.	
/JB/		6,050,718	04-2000	Schena et al.	
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/JB/		5,389,865	02-1995	Jacobus et al.	
Examiner Signature	/Jeffery Brier/		Date Considered	09/24/2007	

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 8

## Complete if Known

Application Number	10/780,852
Filing Date	February 19, 2004
First Named Inventor	Louis B. ROSENBERG
Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	IMMR050/04US

U.S. PATENT DOCUMENTS					
Examiner	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/JB/		5,384,460	01-1995	Tseng	
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/JB/		5,288,203	02-1994	Fuller et al.	
/JB/		5,262,777	11-1993	Low et al.	
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/JB/		5,259,120	11-1993	Chapman et al.	
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/JB/		5,251,127	10-1993	Raab	
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/JB/		5,189,806	03-1993	McMurtry et al.	
/JB/		5,189,355	02-1993	Larkins et al.	
/JB/		5,187,874	02-1993	Takahashi et al.	
/JB/		5,184,306	02-1993	Erdman et al.	
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/JB/		5,178,012	01-1993	Culp	
/JB/		5,148,377	09-1992	McDonald	
/JB/		5,142,506	08-1992	Edwards	
/JB/		5,139,261	08-1992	Openiano	
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/JB/		5,131,844	07-1992	Marinaccio et al.	
/JB/		5,128,671	07-1992	Thomas, Jr.	
/JB/		5,126,948	06-1992	Mitchell et al.	
/JB/		5,116,180	05-1992	Fung et al.	
/JB/		5,107,262	04-1992	Cadoz et al.	
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/JB/		5,088,046	02-1992	McMurtry et al.	
/JB/		5,078,517	12-1991	Ferranti et al.	

Examiner  
Signature

/Jeffery Brier/

Date  
Considered

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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Sheet **3**

of

**8**

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Application Number	10/780,852
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/JB/		5,072,361	12-1991	Davies et al.	
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/JB/		4,679,331	07-1987	Koontz	
/JB/		4,677,355	06-1987	Baumann	

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Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/780,852
		Filing Date	February 19, 2004
		First Named Inventor	Louis B. ROSENBERG
		Art Unit	2173
		Examiner Name	Unassigned
Sheet 4 of 8	Attorney Docket Number	IMMR050/04US	

U.S. PATENT DOCUMENTS					
Examiner	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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/JB/		2,906,179	09-1959	Bower	

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12 of 23 95

(2 of 2)

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Sheet **5** of **8****Complete if Known**

Application Number	10/780,852
Filing Date	February 19, 2004
First Named Inventor	Louis B. ROSENBERG
Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	IMMR050/04US

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>2</sup>	Number <sup>4</sup>	Kind Code <sup>3</sup> (if known)			
		EP	0085518	A1	08-1983		
		WO	96/16397		05-1996		
		WO	96/09944		12-1996		
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		WO	9712357		04-1997		

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Sheet 6

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First Named Inventor	Louis B. ROSENBERG
Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	IMMR050/04US

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS		
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
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Examiner Signature	/Jeffery Brier/	
Date Considered	09/24/2007	

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14 of 23 PB

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Application Number	10/780,852
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First Named Inventor	Louis B. ROSENBERG
Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	IMMR050/04US

**OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
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15 of 23 98

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First Named Inventor	Louis B. ROSENBERG
Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	IMMR050/04US

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		<del>Smith, Geoffrey, "Call It Palpable Progress," Business Week, Oct. 9, 1995, pp. 93, 96.</del>
		<del>Herndon, J.N. et al., "The State-of-the-Art Model M-2 Maintenance System," Proceedings of the 1984 National Topical Meeting on Robotics and Remote Handling in Hostile Environments, American Nuclear Society, pp. 59-65.</del>
		<del>"Proceedings of the IFIP Congress 65," International Federation for Information Processing, Information Processing 1965, vol. 3, New York, May 24-29, 1965, pp. 500.</del>
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16 of 23 98

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		<b>First Named Inventor</b>	Louis B. ROSENBERG
		<b>Group Art Unit</b>	
		<b>Examiner Name</b>	
<b>Sheet</b>	1	of	8
		<b>Attorney Docket Number</b>	IMMR-050/04US

U.S. PATENT DOCUMENTS					
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		Number	Kind Code <sup>2</sup> (if known)		
/JB/		5,785,630		Bobick, et al.	07/28/1998
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17 of 23 9B

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/JB/		3,220,121		Cutler	11/30/1965
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Examiner Signature	/Jeffery Brier/	Date Considered	09/25/2007
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18 of 23 PB

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Substitute for form 1449A/PTO			<b>Complete if Known</b>		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			Application Number		
			Filing Date		
			First Named Inventor		
			Group Art Unit		
			Examiner Name		
Sheet	3	of	8	Attorney Docket Number	IMMR-050/04US

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19 of 23 PB

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			Filing Date		
			First Named Inventor		
			Group Art Unit		
			Examiner Name		
Sheet	4	of	8	Attorney Docket Number	IMMR-050/04US

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/JB/		5,731,804		Rosenberg	03/24/1998
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Examiner Signature	/Jeffery Brier/	Date Considered	09/25/2007
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PTO/SB/08A (06-00)

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number			
		Filing Date	February 19, 2004		
		First Named Inventor	Louis B. ROSENBERG		
		Group Art Unit			
Examiner Name					
Sheet	5	of	8	Attorney Docket Number	IMMR-050/04US

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Office <sup>1</sup>	Number <sup>2</sup>	Kind Code <sup>3</sup> (if known)		
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		PCT	WO9532459			11/30/1995

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					T <sup>2</sup>
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	
		Filing Date	February 19, 2004
		First Named Inventor	Louis B. ROSENBERG
		Group Art Unit	
		Examiner Name	
Sheet	6	of	8
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		Application Number			
		Filing Date	February 19, 2004		
		First Named Inventor	Louis B. ROSENBERG		
		Group Art Unit			
Examiner Name					
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				Filing Date	
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				Group Art Unit	
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				IMMR-050/04US	

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Examiner Signature	/Jeffery Brier/	Date Considered	09/25/2007
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<sup>1</sup> Unique citation designation number.

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 3

### Complete if Known

Application Number	10/780,852
Filing Date	February 19, 2004
First Named Inventor	Louis B. Rosenberg
Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	IMMR-050/04US

### U.S. PATENT DOCUMENTS

Examiner	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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/JB/		6,160,489	12/12/2000	Perry et al.	
/JB/		6,111,577	8/29/2000	Zilles et al.	
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		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
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		JP	H4-8381		1/13/1992	Enoch Co. and Key- Planning Co.	
		JP	H7-24147		1/27/1995	Seiga Corporation	
		JP	H5-192449		8/3/1993	Taito Corporation	

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6 of 23 gB  
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Sheet 2 of 3

### Complete if Known

Application Number	10/780,852
Filing Date	February 19, 2004
First Named Inventor	Louis B. Rosenberg
Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	IMMR-050/04US

### OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
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7 of 23 PB  
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Sheet 3 of 3

## Complete if Known

Application Number	10780,852
Filing Date	February 19, 2004
First Named Inventor	Louis B. Rosenberg
Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	IMMR-050/04US

## OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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12 of 23 93

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Sheet 5 of 8

## Complete if Known

Application Number	10/780,852
Filing Date	February 19, 2004
First Named Inventor	Louis B. ROSENBERG
Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	IMMR050/04US

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6

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14 of 23 PB

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Filing Date	February 19, 2004
First Named Inventor	Louis B. ROSENBERG
Art Unit	2173
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Attorney Docket Number	IMMR050/04US

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/JB/		Rosenberg, Louis B., "Virtual Fixtures as Tools to Enhance Operator Performance in Telepresence Environments" SPIE Telemanipulator Technology, Mar. 1993.
/JB/		Rosenberg, Louis B., "Virtual Haptic Overlays Enhance Performance in Telepresence Tasks," SPIE 1994.
		<del>Burdea, Gergore et al., "Dextrous Telerobotics with Force Feedback-An Overview," Robotica 1994, vol. 9.</del>
		<del>Yamakita, M. et al., Tele-Virtual Reality of Dynamic Mechanical Model, IEEE Jul. 7-10, 1992, pp. 1109-1110.</del>
/JB/		Ouh-young, Ming et al., "Force Display Performs Better than Visual Display in a Simple 6-D Docking Task," IEEE 1989, pp. 1462-1466.
		<del>Kim, Won S. et al., "Graphics Displays for Operator Aid in Telemanipulation," IEEE 1991, pp. 1066-1067.</del>
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/JB/		Kim, Won S. et al., A Teleoperation Training Simulator with Visual and Kinesthetic Force Virtual Reality.
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Sheet 8 of 8

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Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	IMMR050/04US

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/JB/		Ouh-Young, Ming et al., "Using a Manipulator for Force Display in Molecular Docking," IEEE 1988, pp. 1824-1829.
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		Application Number			
		Filing Date	February 19, 2004		
		First Named Inventor	Louis B. ROSENBERG		
		Group Art Unit			
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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T <sup>4</sup>
		Office <sup>1</sup>	Number <sup>2</sup>	Kind Code <sup>3</sup> (if known)			
		EP	0 349 086	A1	Stork Kwant B.V.	01/03/1990	
		JP	H4-8381		Taito Corporation	01/13/1992	
		JP	H2-185278		Taito Corporation	07/19/1990	
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		Balgrie, "Electric Control Loading - A Low Cost, High Performance Alternative," <i>Proceedings of Interservice/Industry Training Systems Conference</i> , pp. 247-254, November 6-8, 1990		
		Iwata, "Pen-based Haptic Virtual Environment," 0-7803-1363-1/93 IEEE, pp. 287-292, 1993		
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	
		Filing Date	February 19, 2004
		First Named Inventor	Louis B. ROSENBERG
		Group Art Unit	
		Examiner Name	
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22 of 23 9B

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23 of 23 JB

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